

Swathi Venkatesh

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Phone

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Skills

- **Languages:** C, C++, Python
- **Backend Technologies:** Node.js, PHP, Express(server-side)
- **Frontend:** ReactJS, JavaScript(ES5/ES6), jQuery, HTML5/CSS3, Bootstrap, TypeScript
- **SQL and NoSQL Databases:** Oracle, MySQL, MongoDB
- **Additional:** GIT, Postman, Pandas, NumPy, Matplotlib, XML, JSON



Work History

Research Assistant

Old Dominion University, Norfolk, VA, USA

May 2021 – July 2021

- Developed Chrome Extensions that enables visually challenged users of Google Docs access its features efficiently.
- Designed a software using [Logistic Regression](#) and [K-Fold validation](#) to compare products available on various e-commerce websites, achieving an accuracy of 94.6%.

Teaching Assistant

Old Dominion University, Norfolk, VA, USA

Jan 2021 – current

- Delivered lectures to 40 undergraduate students for the course CS120/121g - Research methodologies.
- Collaborated with professors on test administration, curriculum development and assignment grading.

Research Intern

Old Dominion University, Norfolk, VA, USA

Jun 2020 – Dec 2020

- Researched and interpreted large volumes of voice data to detect agitation in an individual. Conceptualized the solution using [keyword searches](#), [speech to text engines](#) and [Naive Bayes classifier](#), achieving 89% accuracy.
- Improved monitoring of social behavior metrics by developing a website using React and MongoDB for Virginia Health Department.

Software Intern

Opta Cabs Private Limited, Bangalore, India

Jun 2018 – Aug 2018

- Worked on the optimization of the REST API.
- Different parameters like number of threads, avg response time taken in Jmeter is measured till the point where the server logs fails to handle the number of threads.
- After optimization, the time taken to execute a query reduced having good impact on efficiency and performance of a application. 76.86 % improvement of response time taken in Jmeter was seen.

Software Engineer Intern

LMT Software Solutions Private Limited, Bangalore, India

Jan 2019 – Feb 2019

- Worked on d2Hup algorithm on mining high utility.
- Discovered high-utility itemsets in a transaction database containing utility information from shopping website. d2hup proved more efficient than UPGrowth and Two-Phase by 60.38%.

Technical Assistant Intern

Bharat Sanchar Nigam Limited, Bangalore, India

Jul 2018 – Aug 2018

- Worked on Optical Fibres and FTTH, proved FTTB can provide 10M uplink and downlink compared to 4M provided by FTTH.



Education

Master of Science: Computer Science

Old Dominion University, Norfolk, VA, USA

Jan 2021 – Current

- Current GPA: [3.87/4.0](#)

Bachelor of Engineering: Computer Science

BNM Institute of Technology, Bangalore, India

Aug 2016 – Sep 2020

- GPA: [3.4/4.0](#)
- Research Project: [Candidate talent assessment through Recommender Systems using Machine Learning](#)
- Academic Project: Image Based Registration and Authentication System, Security with Bitcoin on Cloud
- Secured first place in Semester 4 ; second place in Semester 1 and 2 of the VTU Examination.



Certifications

- Server side development with NodeJS, Express and MongoDB
- HTML, CSS and Javascript for Web Developers
- JavaScript, jQuery and JSON